

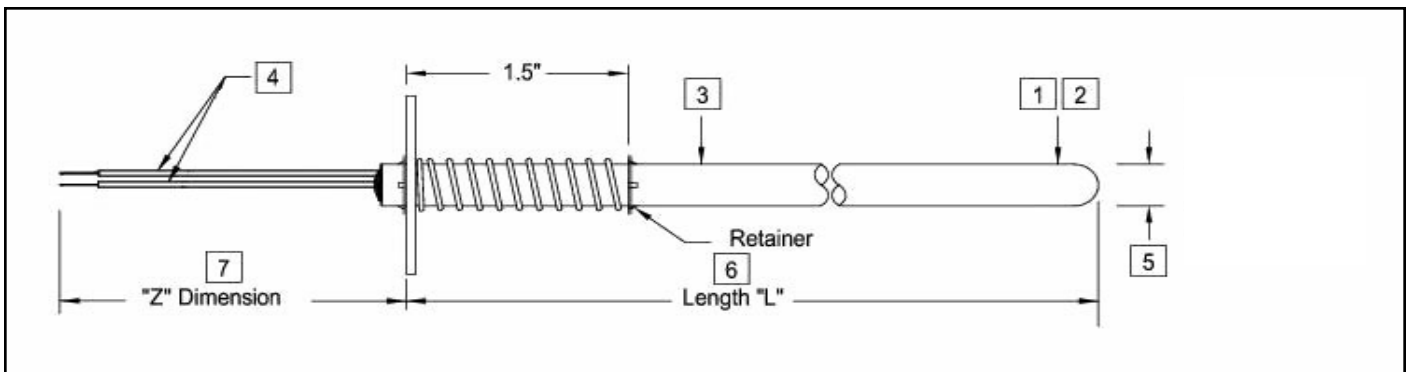
Model 301

Spring-Loaded Thermocouple for use with Cast Iron Explosion-Proof Housing

Designed to be used with a thermowell. The spring loading action of this thermowell ensures proper contact with the tip of the thermowell for maximum heat transfer. The sensor is designed to be used with Weed Instrument's explosion-proof connection head.



- Refer to Model 305 if spring-loaded hex fitting is required.
- Refer to Model 312 for spring-loaded applications.



Specifications:

1. Base Model	Base Model/Series Number.
2. A. Accuracy:	ANSI Special Limits of Error is standard. See Thermocouple General Specifications.
B. Type:	Application dependent. See Thermocouple General Specifications.
C. Response Time:	Dependent on sheath diameter and measuring junction. See Thermocouple General Specifications.
D. Tip Sensitivity:	Thermocouples are inherently tip sensitive.
3. Grounded:	At the tip, thermocouple wires are attached to inside of probe wall, resulting in quick response time.
Ungrounded:	At the tip, thermocouple wires are insulated from the inside of probe wall, results are a slower response time but increased isolation.
4. Construction:	Code A - 316SS tube construction, teflon insulated lead wire. Code C - 316SS MgO construction, fiberglass insulated lead wire. Code B - Inconel sheathed MgO construction, fiberglass insulated lead wire.
5. Lead Wires:	
6. Sheath Diameter:	.250" (1/4") is industry standard.
7. Sheath Length:	Entire stem length. See Thermocouple General Specifications.
8. Lead Wire Length:	Length of wires beyond the sheath.

Model	Description		
301	Spring- Loaded Thermocouple for use with Cast Iron Explosion-Proof Cast Housing (Type 3)		
1	Code	Thermocouple Type	Range
	J	Type J Thermocouple	32 to 1400°F 0 to 760°C
	K	Type K Thermocouple	-328 to 2300°F -200 to 1260°C
	T	Type T Thermocouple	-328 to 700°F -200 to 371°C
	E	Type E Thermocouple	-328 to 1600°F -200 to 871°C
	R	Type R Thermocouple	32 to 2700°F 0 to 1482°C
	S	Type S Thermocouple	32 to 2700°F 0 to 1482°C
	B	Type B Thermocouple	32 to 3100°F 0 to 1704°C
	N	Type N Thermocouple	-454 to 2372°F -270 to 1300°C
	Add "MT" for matched to transmitter. See Thermocouple General Specifications.		
2	Code	Junction Type	
	G	Grounded	
3	Code	Construction Temperature Limit	
		A 500° F Maximum	
		C 1600° F Maximum	
4	Code	Number of Lead Wires	
		2 Single Thermocouple	
5	Code	Sheath Diameter	
		C .250" Diameter	
6	Code	Sheath Length	
		XXX.X Specify length to nearest 0.1"	
7	Code	Lead Wire Length	
		Z003 3" - Standard with head	
		Z024 24" - Standard without head	
		ZXXX Other - consult factory	
8			

301	-	J	-	G	-	C	-	2	-	C	-	012.0	-	Z024
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sample Model Number
Your Model Number

